## AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## IN THE CLAIMS:

Claims 1-114 (Cancelled).

115. (Currently amended) In a method of transmitting a message from a sender to a destination address through a server displaced from the destination address and of authenticating the message, the steps at the server of:

receiving the message from the sender,

transmitting the message to the destination address,

storing at the server at least a portion of a mail transport protocol dialog generated during the transmission of the message between the server and the destination address,

receiving at the server an indication from the destination address that the message has been received at the destination address from the server,

maintaining the message and additionally creating a digital signature of the message for later authentication of the message by the server, and

transmitting to the sender the message, [[and]] the digital signature of the message, and the at least a portion of the mail transport dialog before any authentication of the message for storage by the sender.

116. (Previously presented) In a method as set forth in claim 115, the step at the server of:

discarding the message and the digital signature of the message after the transmission of the message and the digital signature of the message to the sender and before any authentication of the message.

117. (Currently amended) In a method as set forth in claim 116, the steps at the server of:

receiving from the sender a copy of the message and the digital signature of the message before any authentication of the message, but after the transmission of the message to the sender,

generating digital fingerprints of the copy of the message from the sender, comparing the generated digital fingerprints to the digital signature of the message, and

118. (Currently amended) In a method as set forth in claim 116, the steps at the server of:

authenticating the message on the basis of the results of the comparison.

providing at the server an attachment including an identity of the sender and an identity and an address of the server and an identity and a destination address of the recipient[[,]] 

maintaining an attachment and additionally providing a digital signature of the attachment and

transmitting to the sender the attachment and the digital signature of the attachment, at the same time as the transmission of the message, and the digital signature of the message, to the sender.

119. (Previously presented) In a method as set forth in claim 115, the steps at the server of:

receiving an attachment from the destination address,

maintaining the attachment and additionally providing a digital signature of the attachment and

transmitting to the sender the attachment, and the digital signature of the attachment for storage by the sender.

120. (Currently amended) In a method as set forth in claim 119, the steps at the server of:

receiving from the sender copies of the message and the attachment and the digital signature of the message and the attachment,

generating digital fingerprints of the message [[and]], [[and]] comparing the digital fingerprints of the message to the digital signature of the message, and

comparing the digital fingerprints of the attachment to the digital signature of the attachment, to authenticate the message and the attachment.

121. (Currently amended) In a method as set forth in claim 116, the steps at the server of:

receiving the message, and the verification of the message, at the server from the sender, and

authenticating the message at the server on the basis of the message, and the verification digital signature of the message, received by the server from the sender.

Claims 122-229 (Cancelled).

230. (Currently amended) In a method of authenticating a message provided by a sender and transmitted to a destination server by a second server displaced from the sender and the destination server, the steps at the second server of:

creating an electronic attachment at the second server including the identity and address of the sender and the identity and address of the second server and the identity and address of the destination server and at least a portion of a mail transport protocol dialog generated during the transmission of the message between[[,]] the second server and the destination server, and

transmitting the electronic attachment from the second server to the sender after the transmission of the message from the second server to the destination server but before any authentication of the message by the second server.

- 231. (Currently amended) In a method as set forth in claim 230 wherein the at least a portion of the mail transport protocol dialog of the electronic attachment transmitted from the second server to the sender includes the address and the identity of intermediate stations receiving the electronic attachment in the transmission of the electronic attachment from the second server to the destination server.
- 232. (Currently amended) In a method as set forth in claim 230, the steps at the second server of:

providing a verification digital signature of the electronic attachment at the second server and

transmitting the <u>verification digital signature</u> of the attachment from the second server to the sender, at the time of transmitting the attachment from the second server to the sender.

- 233. (Canceled)
- 234. (Currently amended) In a method as set forth in claim 232, the steps at the second server of:

receiving the electronic attachment, and the verification digital signature of the electronic attachment, at the second server from the sender, and

authenticating the electronic attachment at the second server on the basis of the electronic attachment, and the verification digital signature of the electronic attachment, received by the second server from the sender.

- 235. (Canceled)
- 236. (Currently amended) In a method as set forth in claim 232, the steps at the second server of:

receiving at the second server the attachment, and the verification digital signature of the attachment, from the sender,

providing at the second server digital fingerprints of the attachment, comparing the digital fingerprints and the verification digital signature of the attachment to authenticate the attachment.

237. (Canceled)

Claims 238-285 (Cancelled).

286. (Previously presented) In a method as set forth in claim 116, including the steps at the server of:

receiving from the sender a copy of the message and the digital signature of the message after the transmission of the message to the destination address but before any authentication of the message, and

processing the message and the digital signature of the message to determine the authentication of the message.

287. (Currently amended) In a method as set forth in claim 115, the steps of:

in the course of transmitting the message from the server to the destination
address, providing an exchange of data in the dialog between the server and the destination
address relating to the message,

recording at the server at least a portion of the data exchanged in the dialog between the server and the destination address relating to the message, and

transmitting the recorded data at least a portion of the mail transport protocol dialog to a storage means for subsequent production as proof of delivery of the message to the destination address.

- 288. (Currently amended) In a method as set forth in claim 287 wherein the <u>mail transport protocol dialog is a SMTP or ESMTP dialog and includes</u> data exchanged <del>in the dialog</del> between the server and the destination address relating to the message <del>may be via a selected one of SMTP and ESMTP protocols</del>.
- 289. (Currently amended) In a method as set forth in claim 287 wherein the exchange of mail transport protocol dialog includes data in the dialog between the server and the destination address relating to the message includes including the identification of the server and the destination address and the identification of the message and an acknowledgement of the receipt of the message by the destination address.
- 290. (Previously presented) In a method as set forth in claim 288 wherein the data exchanged in the dialog between the server and the destination address relating to the message is used to establish that the message has been received at the destination address.
- 291. (Currently amended) In a method as set forth in claim 290, wherein the authentication is provided as follows:

generating at the server a digital fingerprint of the message received by the server from the sender, and

comparing the digital fingerprints generated at the server\_to the digital signature of the message, and

providing an electronic attachment transmitted between the server and the destination address via a selected one of SMTP and ESMTP protocols, and

providing a dialog between the server and the destination address relating to the message during the transmission of the message from the server to the destination address server so as to establish subsequently that the destination address has received the message, and transmitting the electronic attachment from the second server to the sender.

292. (Currently amended) In a method as set forth in claim 230, the steps of:

providing a dialog between the second server and the destination server relating to
the message and the electronic attachment during the transmission of the message from the
second server to the destination server, through stages between the second server and the
destination server, to establish subsequently that the destination server has received the message,
and

storing the at least a portion of the <u>mail transport protocol</u> dialog between the second server and the destination server relating to the message for subsequent proof of delivery of the message by the second server to the destination server.

- 293. (Currently amended) In a method as set forth in claim 291 wherein the <u>mail transport protocol</u> dialog between the second server and the destination server includes matter relating to the identities of the second server and the destination server and relating to the message.
- 294. (Currently amended) In a method as set forth in claim 292 wherein the <u>at least a portion of the mail transport protocol</u> dialog between the second server and the destination server is included in the electronic attachment.
- 295. (Currently amended) In a method as set forth in claim 293 wherein the <u>mail transport protocol</u> dialog between the second server and the destination server includes an acknowledgement by the destination server to the second server that it has received the message.
- 296. (Currently amended) In a method as set forth in claim 231, the steps of: wherein providing a the at least a portion of the mail transport protocol dialog includes data exchanged between the second server and the destination server relating to the message during the transmission of the message between the second server and the destination server

through stages between the second server and the destination server, and <u>further includes the step</u> of

storing the at least a portion of the dialog between the second server and the destination server relating to the message for subsequent proof of delivery of the message by the second server to the destination server.

297. (Currently amended) In a method as set forth in claim 234 including the steps of:

providing a dialog between the second server and the destination server relating to
the message during the transmission of the message between the second server and the
destination server, the dialog between the second server and the destination server relating to the
message being provided via a selected one of SMTP and ESMTP protocols,

storing the at least a portion of the <u>mail transport protocol</u> dialog between the second server and the destination server for subsequent proof of the delivery of the message by the second server to the destination server, wherein

the dialog is an SMTP or ESMTP protocol dialog, and wherein

the dialog between the second server and the destination server includes matter relating to the identities of the second server and the destination server and relating to the message and wherein

the dialog between the second server and the destination server is included in the electronic attachment.

Claims 298-300 (Cancelled).